AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. - 10. (Canceled)

11. (New) Apparatus for detecting presence and measuring strength of an impact of a blow struck by a mobile body on a mobile or stationary target, comprising a first sensor integral with the target for detecting whether the target has been impacted by the mobile body and producing an electric image of the impact, the first sensor comprising a variable capacitor, and a second sensor integral with the mobile body for detecting whether the mobile body grazes the target or strikes it, the second sensor comprising a variable induction coil.

12. (New) Apparatus according to claim 11, wherein the target comprises means for creating a magnetic field in its vicinity, the mobile body comprises a material highly permeable to the magnetic field and the apparatus further comprises a magnetic field detector for detecting magnetic properties of the target.

13. (New) Apparatus according to claim 12, wherein the material highly permeable to the magnetic field comprises at least one ferromagnetic alloy having a high magnetic permeability and a low coercive force and has a permeability of 60,000 to 240.000.

14. (New) Apparatus according to claim 13, wherein the material permeable to the magnetic field comprises a Mumétal® or Permalloy® alloy.

15. (New) Apparatus according to claim 12, wherein the magnetic field detector comprises an induction coil, an oscillating circuit, a converter and a comparator, the magnetic field detector detecting variation of the magnetic properties of the target induced by a material which is permeable to the magnetic field.

16. (New) Apparatus according to claim 11, wherein the first sensor comprises at least one matrix including a plurality of capacitors, the at least one matrix being partially deformable under the influence of an impact thereby to vary conductance of a circuit including the capacitors.

17. (New) Apparatus according to claim 16, wherein the at least one

matrix comprises a first matrix including a first plurality of interconnected

plates of a conductor metal and a second matrix including a second plurality of

interconnected plates of a conductor metal, respective plates of the first plurality

of plates facing respective plates of the second plurality of plates and the

deformation of the matrixes under the influence of an impact varying distance

between respective pairs of the facing plates thereby to vary conductance of a

circuit including the pairs of the facing plates.

18. (New) A method for detecting nature of an impact of a blow struck

by a mobile body on a mobile or stationary target, comprising creating a

magnetic field on the target, providing a first sensor comprising a variable

capacitor integral with the target for detecting whether the target has been

impacted by the mobile body and producing an electric image of the impact,

wherein impact of the mobile body on the capacitor varies capacity of the

capacitor, providing a second sensor comprising a variable induction coil

integral with the mobile body for detecting whether the mobile body grazes the

target or strikes it, wherein variation of strength of the magnetic field varies

inductance of the induction coil, memorizing the capacity variation in a 16 bit

register, and memorizing information about the inductance variation by one bit

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in a low level latch if the mobile body is present and in a high level latch if the

mobile body is absent.

19. (New) A method according to claim 18, comprising transmitting

respective data of the capacity variation and of the inductance variation in the

form of signals by means of radio waves to a receiver connected to a computer.

20. (New) A method according to claim 18, wherein the blows are struck

in a combative sport and the computer processes said data to produce

information for assisting refereeing of the combative sport.

21. (New) A method according to claim 20, wherein the combative sport

is taekwondo.